



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
1200 Pennsylvania Ave, N.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX – Generic Matrix

Date 6/22/2020	EPA Reg. No./File Symbol: 50757-not yet assigned	Page 1 of 3			
Applicant's/Registrant's Name & Address: Guy & O'Neill, Inc., 200 Industrial Dr., Fredonia, WIL 50321		Product G&O CARTU			
Ingredient(s): Citric Acid (CASRN: 77-92-9)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note

TOXICOLOGY DATA REQUIREMENTS

870.1100	Acute Oral Toxicity	Waiver Request			See Footnote 1
870.1200	Acute Dermal Toxicity	“			“
870.1300	Acute Inhalation Toxicity	“			“
870.2400	Primary Eye Irritation	“			“
870.2500	Primary Dermal Irritation	“			“
870.2600	Skin Sensitization	“			“
870.3100	90-Day Oral Toxicity (rat)	“			“
970.3150	90-Day Oral (nonrodent)	“			“
870.3200	21-Day Dermal Toxicity	“			“
870.3250	90-Day Dermal Toxicity	“			“
870.3465	90-Day Inhalation Toxicity	“			“
870.6200	90-Day Neurotoxicity	“			“
870.3700	Developmental Toxicity Study	“			“
870.3800	Reproduction and Fertility Effects	“			“
870.4100	Chronic Oral (rodent)	“			“
870.4200	Carcinogenicity (2 rodent species)	“			“
870.4300	Combined Chronic/Oncogenicity	“			“
870.5100	Reverse Mutation Assay	“			“
870.5300	<i>In-vitro</i> Mammalian Gene Mutation	“			“
870.5395	<i>In Vivo</i> cytogenetics	“			“
870.7485	General Metabolism	“			“
870.7800	Immunotoxicity	“			“

Signature <i>Georgia Anastasiou</i>	Name and Title: Georgia Anastasiou, Agent	Date 6/22/2020
--	--	-------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
1200 Pennsylvania Ave, N.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX – Generic Matrix

Date 6/22/2020	EPA Reg. No./File Symbol: 50757-not yet assigned	Page 2 of 3			
Applicant's/Registrant's Name & Address: Guy & O'Neill, Inc., 200 Industrial Dr., Fredonia, WIL 50321		Product G&O CARTU			
Ingredient(s): Citric Acid (CASRN: 77-92-9)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note

NON-TARGET ORGANISM DATA REQUIREMENTS

850.2100	Acute Avian Oral	Waiver Request			See Footnote 2
850.1010	Aquatic Freshwater Invertebrate Toxicity (<i>daphnia magna</i>)	“			“
850.1075	Acute Freshwater Fish toxicity (bluegill sunfish and rainbow trout)	“			“
870.1300	Fish Early-Life Stage	“			“
870.1400	Aquatic Invertebrate Life-Cycle	“			“
850.4400	Aquatic Plant Growth – Vascular Plants	“			“
850.5400	Aquatic Plant Growth - Algae	“			“

ENVIRONMENTAL FATE DATA REQUIREMENTS

835.1110	Activated Sludge Sorption Isotherm	Waiver Request			See Footnote 3
835.2120	Hydrolysis	“			“
835.2240	Photodegradation in Water	“			“
835.4100	Aerobic Soil Metabolism	“			“
835.4200	Anaerobic Soil Metabolism	“			“
835.4300	Aerobic Aquatic Metabolism	“			“
835.4400	Anaerobic Aquatic Metabolism	“			“
835.1240	Leaching/Adsorption/Desorption	“			“
850.6800	Activated Sludge Respiration Inhibition Test	“			“

Signature <i>Georgia Anastasiou</i>	Name and Title: Georgia Anastasiou, Agent	Date 6/22/2020
--	--	-------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
1200 Pennsylvania Ave, N.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX – Generic Matrix

Date 6/22/2020	EPA Reg. No./File Symbol: 50757-not yet assigned	Page 3 of 3			
Applicant's/Registrant's Name & Address: Guy & O'Neill, Inc., 200 Industrial Dr., Fredonia, WIL 50321		Product G&O CARTU			
Ingredient(s): Citric Acid (CASRN: 77-92-9)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note

Occupation and Residential Exposure Data Requirements

875.1200	Dermal Exposure – Indoor	Waiver Request			See Footnote 4
875.1400	Inhalation Exposure – Indoor	“			“
875.1600	Data Reporting and Calculations	“			“
875.1700	Product Use Information	“			“
875.2400	Dermal Exposure – Post Application	“			“
875.2500	Inhalation Exposure – Post Application	“			“
875.2800	Description of Human Activity	“			“

RESIDUE CHEMISTRY

860.1100	Chemical Identity	See CSF			
860.1200	Directions for Use	See Product Label			
860.1300	Nature of the Residue In Plants	Waiver Request			See Footnote 5
860.1340	Residue Analytical Methods	“			“
860.1500	Crop Field Trials	“			“

NOTES

1. According to the *Registration Eligibility Decision (RED)* document for citric acid the Registration Review evaluations, all generic toxicology data requirements have been waived. See attachment.
2. According to the *Registration Eligibility Decision (RED)* document for citric acid the Registration Review evaluations, all generic non-target organism (ecological effects) data requirements have been waived. See attachment.
3. According to the *Registration Eligibility Decision (RED)* document for citric acid the Registration Review evaluations, all generic environmental fate data requirements have been waived. See attachment.
4. According to the *Registration Eligibility Decision (RED)* document for citric acid the Registration Review evaluations, all generic occupational and residential exposure data requirements have been waived. See attachment.
5. According to the *Registration Eligibility Decision (RED)* document for citric acid the Registration Review evaluations, all generic residue chemistry data requirements have been waived. See attachment

Signature 	Name and Title: Georgia Anastasiou, Agent	Date 6/22/2020
---------------	--	-------------------



R.E.D. FACTS

Citric Acid

Pesticide Reregistration

All pesticides sold or used in the United States must be registered by EPA, based on scientific studies showing that they can be used without posing unreasonable risks to people or the environment. Because of advances in scientific knowledge, the law requires that pesticides which were first registered years ago be reregistered to ensure that they meet today's more stringent standards.

In evaluating pesticides for reregistration, EPA obtains and reviews a complete set of studies from pesticide producers, showing the human health and environmental effects of each pesticide. The Agency imposes any regulatory controls that are needed to effectively manage each pesticide's risks. EPA then reregisters pesticides that can be used without posing undue hazards to human health or the environment.

When a pesticide is eligible for reregistration, EPA announces this and explains why in a Reregistration Eligibility Document, or RED. This fact sheet summarizes the information in the RED for citric acid.

Use Profile

Citric acid is an active ingredient in pesticide products registered for residential and commercial use as disinfectants, sanitizers and fungicides. These products, containing citric acid in combination with other active ingredients, are used to kill odor-causing bacteria, mildew, pathogenic fungi, certain bacteria and some viruses; and to remove dirt, soap scum, rust, slime and calcium deposits. Citric acid products are used in bathrooms, and in/on dairy and food processing equipment.

Citric acid occurs naturally in plants and in animal tissues and fluids. It can be extracted from citrus fruit and pineapple waste. It can be produced on an industrial scale by mold-based fermentation of carbohydrates such as molasses.

Regulatory History

The first pesticide products containing citric acid as an active ingredient were registered in the early 1970's. Currently, three products containing citric acid and other active ingredients are registered for use as fungicides and bactericides, as described above. Citric acid is "generally recognized as safe," or GRAS (see 21 CFR 182.1033).

Human Health and Environmental Assessment

Although EPA has developed a set of data requirements for reregistration, the Agency believes there is a category of pesticides for which a greatly reduced set of data requirements are appropriate. Such pesticides may be exempt from the usual generic data requirements for toxicology, residue chemistry, human exposure, ecological effects and environmental fate, without compromising human health or environmental safety. However, some data requirements (such as product specific product chemistry data, acute toxicology studies and efficacy studies) usually are essential, and generally will not be waived.

Citric acid is in this category of pesticides, and EPA is waiving most of the generic data requirements for its reregistration. Citric acid is a well known component of carbohydrate metabolism in living organisms, and is found naturally in soil and water. It degrades readily when in contact with a variety of microorganisms that are found in soil, natural waters and sewage treatment systems.

The current registered pesticidal uses of citric acid result in only negligible human and environmental exposure. EPA has received no reports of adverse effects resulting from citric acid's use. Citric acid, however, is a severe eye irritant and a moderate skin irritant, so appropriate label precautions are necessary. The Agency believes that no significant adverse effects to humans or the environment are associated with the proper use of citric acid as a pesticide.

Additional Data Required

EPA has waived all additional generic data requirements for citric acid.

Product Labeling Changes Required

The labels of the three registered citric acid pesticide products must comply with EPA's current pesticide labeling requirements.

Regulatory Conclusion

- The registered disinfectant, sanitizer and fungicide uses of citric acid are not likely to cause unreasonable adverse effects in people or the environment, and are eligible for reregistration.
- These products, which contain both citric acid and other active ingredients, will be reregistered once product-specific data and amended labeling are received and accepted by EPA, and after the other active ingredients also are determined to be eligible for reregistration.

For More Information

EPA is requesting public comments on the Reregistration Eligibility Document (RED) for citric acid during a 60-day time period, as announced in a Notice of Availability published in the Federal Register. To obtain a copy of the RED or to submit written comments, please contact the Public Response and Program Resources Branch, Field Operations Division (7506C), Office of Pesticide Programs (OPP), US EPA, Washington, DC 20460, telephone 703-305-5805.

In the future, the citric acid RED will be available from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161, telephone 703-487-4650.

For more information about citric acid or about EPA's pesticide reregistration program, please contact the Special Review and Reregistration Division (7508W), OPP, US EPA, Washington, DC 20460, telephone 703-308-8000. For information about reregistration of individual citric acid products, please contact the Registration Division (7505C), OPP, US EPA, Washington, DC 20460, telephone 703-305-5447.

For information about the health effects of pesticides, or for assistance in recognizing and managing pesticide poisoning symptoms, please contact the National Pesticides Telecommunications Network (NPTN). Call toll-free 1-800-858-7378, 24 hours a day, seven days a week, or Fax your inquiry to 806-743-3094.